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OFFICIAL ROUTING SLIP					
TO	NAME AND ADDRESS		INITIALS	DATE	
1	OC. E / R & D Lab.		NG	12/23	
2	Attn [redacted]			25X1	
3	[redacted]		ARZ	12/25X1	
4					
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ACTION		DIRECT REPLY		PREPARE REPLY	
APPROVAL		DISPATCH		RECOMMENDATION	
COMMENT		FILE		RETURN	
CONCURRENCE		INFORMATION		SIGNATURE	

Remarks:

*Quo: please check one
 CV-2 to see if it will
 oscillate when microswitch
 is actuated
 How about Calibration A*

FOLD HERE TO RETURN TO SENDER

FROM: NAME, ADDRESS AND PHONE NO.		DATE
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19 December 1957

MEMORANDUM TO THE FILES

FROM:

25X1

SUBJECT: Preliminary Operational Evaluation of the CV-2, 6-12 mc/s transistorized converter.

1. The CV-2s, serials #522 and #523, were given a preliminary operational evaluation during the week of 9 December 1957. The chief impediment to any sort of evaluation was the output frequency of the unit: 1500 kc/s; WTOP, 1500 kc/s, 50 KW. The output frequency was changed in one unit, #522, to 1470 kc/s, the closest clear spot in the broadcast band to 1500 kc/s. The other unit, #523, is en route to the R&D Laboratory to have the tuning slug in the output circuitry replaced so that this unit will have a tunable output. *Corrected ATB*

2. Various crystals, selected at random from the Operational Requirements Section 'stock' were used to check the unit over the 6-12 mc/s band. As in the case of the CV-1, the converter performed satisfactorily; keeping in mind that a converter such as this is not expected to compete with a several hundred dollar communications receiver. One point learned from the tests was that it is possible to double with the converter. A crystal of fundamental frequency 4476 kc/s was used to receive helmschreiber transmissions on 10417 kc/s. $10417 \text{ kc/s} - 1470 \text{ kc/s} = 8947/2 = 4473.5$ or approximately 4476 kc/s. Theoretically, then, crystals with a fundamental of from (roughly) 4600 to 5250 kc/s would produce two 1500 kc/s outputs. This effect may necessitate that a calibration or marking system be inscribed about the only tuning control, C1, on the case. *25X1 ok CV-2A deats ATB*

3. The unit oscillates when the micro-switch is depressed without a crystal in the socket. As it does not appear to affect the crystal operation of the unit there is no objection from an operational standpoint to this effect. *2lnk. coil in feedbacks check ATB*

4. The units will be given a full evaluation under field conditions when serial #523 has been returned from the R&D Laboratory.

25X1

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